Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	707/101.ccls. and (web with interface) same (software with test\$4) and configuration and database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:44
L2	0	707/102.ccls. and (web with interface) same (software with test\$4) and configuration and database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:45
L3	4	707/10.ccls. and (web with interface) same (software with test\$4) and configuration and database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/11/22 16:45
L4	3	(web with interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:45
S1	0	(web with terface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/13 15:10
S2	0	(web with interface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:36
S3	Ó	(web same interface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/13 15:11
S4	7	(web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:19
S8		"Li.ini"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:15

						2005/07/47 42 44
S12	554	Melamed.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:16
S13	1	Melamed.in. and Konstan\$4.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:17
S14	0	707/102.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:19
S15	0	707/101.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2006/05/17 12:20
S16	0	707/10.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:20
S17	0	(web with terface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
S18	0	(web with interface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
S19		(web same interface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
S20	7	(web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
S21	6 4:E1:42 PM	"Li.ini"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27

S22	576	Melamed.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
S23	1	Melamed.in. and Konstan\$4.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
S24	0	707/102.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
S25	0	707/101.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
S26		707/10.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
S27	0	707/10.ccls. and @ad > "20061010"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:28
S28	2	707/10.ccls. and @ad > "20060610"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:29
S29	7	707/10.ccls. and @ad > "20060510"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:29
S31	50	(web with interface) same (software with test\$4) and configuration and database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:44
S32	0	(web with interface) same (software with test\$4) and configuration and database and @ad < "20021203" and (GUI with object with functionality)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:38

S33	8	(web with interface) same (software with test\$4) and configuration and database and @ad < "20021203" and (GUI and object and functionality)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:39
S34	2	(web with interface) same (software with test\$4) and configuration and database and @ad < "20021203" and (XML and encoded and test)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:39

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(web with terface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
L2	0	(web with interface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
L3	0	(web same interface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
L4	7	(web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
L5	1	"Li.ini"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
L6	576	Melamed.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
L7	1	Melamed.in. and Konstan\$4.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
L8	0	707/102.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR:	ON	2006/11/22 16:27
L9	0	707/101.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27

11/22/06 4:39:40 PM C:\Documents and Settings\KLu\My Documents\EAST\Workspaces\10720055.wsp Page 1

L10	0	707/10.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:27
L11	0	707/10.ccls. and @ad > "20061010"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:28
L12	2	707/10.ccls. and @ad > "20060610"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:29
L13	7	707/10.ccls. and @ad > "20060510"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:29
L14	3	(web with interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:36
L15	50	(web with interface) same (software with test\$4) and configuration and database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:37
L16	0	(web with interface) same (software with test\$4) and configuration and database and @ad < "20021203" and (GUI with object with functionality)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:38
L17	8	(web with interface) same (software with test\$4) and configuration and database and @ad < "20021203" and (GUI and object and functionality)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:39
L18	2	(web with interface) same (software with test\$4) and configuration and database and @ad < "20021203" and (XML and encoded and test)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/11/22 16:39
S1	0	(web with terface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/13 15:10

S2	0	(web with interface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 16:36
S3	0	(web same interface) same (software adj test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/13 15:11
S4	7	(web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:19
S8	1	"Li.ini"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:15
S12	554	Melamed.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:16
S13	. 1	Melamed.in. and Konstan\$4.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:17
S14,	0	707/102.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:19
S15	0	707/101.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:20
S16		707/10.ccls. and (web same interface) same (software with test\$4) same configuration same database and @ad < "20021203"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:20



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Reviewed articles: SIGAda 2001 workshop, "creating a symbiotic relationship

between XML and Ada"

Robert C. Leif

September 2002 ACM SIGAda Ada Letters, Volume XXII Issue 3

window

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Publisher: ACM Press

Full text available: pdf(1.39 MB)

Additional Information: full citation, abstract, references, citings, index

terms

The purpose of the workshop was to organize the Ada community to take advantage of the opportunity to create Ada applications that are operating systems independent because they are based on a web technology, XML, Extensible Markup Language. The commercial use of the Internet is the driving force behind XML. Four elements of XML, which together are sufficient to build a web application, and all employ the same syntax were described. These are XML; its schema; the Extensible Stylesheet Language, ...

Mae---a system model and environment for managing architectural evolution

Roshanak Roshandel, André Van Der Hoek, Marija Mikic-Rakic, Nenad Medvidovic April 2004 ACM Transactions on Software Engineering and Methodology (TOSEM),

Volume 13 Issue 2 Publisher: ACM Press

Full text available: pdf(2.39 MB)

Additional Information: full citation, abstract, references, index terms

As with any other artifact produced as part of the software life cycle, software architectures evolve and this evolution must be managed. One approach to doing so would be to apply any of a host of existing configuration management systems, which have long been used successfully at the level of source code. Unfortunately, such an approach leads to many problems that prevent effective management of architectural evolution. To overcome these problems, we have developed an alternative approach cent ...

Keywords: Design environment, Mae, evolution, system model

Spoken dialogue technology: enabling the conversational user interface

Michael F. McTear March 2002

Full text available: 📆 pdf(987.69 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

4 A composable framework for secure multi-modal access to internet services from Post-PC devices



Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 Mobile Networks and Applications, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Additional Information: full citation, abstract, references, index terms, Full text available: pdf(340.33 KB) review

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

⁵ UML-based multiprocessor SoC design framework



Tero Kangas, Petri Kukkala, Heikki Orsila, Erno Salminen, Marko Hännikäinen, Timo D. Hämäläinen, Jouni Riihimäki, Kimmo Kuusilinna

May 2006 ACM Transactions on Embedded Computing Systems (TECS), Volume 5 Issue 2 Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(3.37 MB)

This paper describes a complete design flow for multiprocessor systems-on-chips (SoCs) covering the design phases from system-level modeling to FPGA prototyping. The design of complex heterogeneous systems is enabled by raising the abstraction level and providing several system-level design automation tools. The system is modeled in a UML design environment following a new UML profile that specifies the practices for orthogonal application and architecture modeling. The design flow tools are gov ...

Keywords: UML 2.0, architecture exploration, design flow

6 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering



September 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 5

Publisher: ACM Press

Full text available: pdf(1.98 MB)

Additional Information: full citation, index terms

7 Link and channel measurement: A simple mechanism for capturing and replaying





wireless channels

Glenn Judd, Peter Steenkiste

August 2005 Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05

Publisher: ACM Press

Full text available: pdf(6.06 MB)

Additional Information: full citation, abstract, references, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

An environment for developing adaptive, multi-device user interfaces

John Grundy, Biao Yang

February 2003 Proceedings of the Fourth Australasian user interface conference on User interfaces 2003 - Volume 18 AUIC '03

Publisher: Australian Computer Society, Inc.

Full text available: pdf(784.56 KB)

Additional Information: full citation, abstract, references, citings, index terms

There is a growing demand for the development of multi-device, adaptive user interfaces - interfaces that will run on and adapt to the characteristics of multiple display devices and networks as well as multiple users and user tasks. We describe a design and implementation environment for the development of such interfaces. This tool allows developers to specify their desired interfaces using an abstract set of screen element and layout constructs. It then generates a Java Server Page implementa ...

Keywords: adaptive user interfaces, mobile user interfaces, multi-device user interfaces, thin-client user interfaces, user interface design tools

Internet-Based Collaborative Test Generation with MOSCITO

A. Schneider, K. Diener, E. Ivask, J. Raik, R. Ubar, P. Miklos, T. Cibáková, E. Gramatová March 2002 Proceedings of the conference on Design, automation and test in Europe **Publisher: IEEE Computer Society**

Full text available: pdf(419.63 KB) Pub<u>lisher Site</u>

Additional Information: full citation, abstract

This paper offers an Internet-based environment forenhancing problem-specific design flows with test patterngeneration and fault simulation capabilities. AutomaticTest Pattern Generation (ATPG) and fault simulation toolsat structural and hierarchical levels available at geographically different places running under the virtual environmentusing the MOSCITO system are presented. Thesetools can be used separately, or in multiple applications, for test pattern generation of digital circuits. In order ...

10

Hypertext versioning: Automatic generation of hypertext system repositories: a model





driven approach

E. James Whitehead, Guozheng Ge, Kai Pan

August 2004 Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04

Publisher: ACM Press

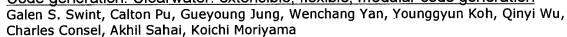
Full text available: pdf(593.73 KB)

Additional Information: full citation, abstract, references, citings, index

In this paper, we present a model-driven methodology and toolset for automatic generation of hypertext system repositories. Our code generator, called Bamboo, is based on a Containment Modeling Framework (CMF) that uniformly describes data models for hypertext systems. CMF employs a lightweight modeling approach in which entities (system abstractions) and containment relationships are used to model hypertext system repositories. Given a description of a system repository data model using CMF, as ...

Keywords: automatic code generation, containment modeling framework, hypertext data models, model-driven development, open hyperbase

11 Code generation: Clearwater: extensible, flexible, modular code generation



November 2005 Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05

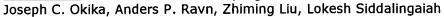
Publisher: ACM Press

Full text available: pdf(236.62 KB) Additional Information: full citation, abstract, references, index terms

Distributed applications typically interact with a number of heterogeneous and autonomous components that evolve independently. Methodical development of such applications can benefit from approaches based on domain-specific languages (DSLs). However, the evolution and customization of heterogeneous components introduces significant challenges to accommodating the syntax and semantics of a DSL in addition to the heterogeneous platforms on which they must run. In this paper, we address the challe ...

Keywords: AXpect, DSL, ISG, clearwater, code generation, infopipes

12 Tools and environments: Developing a TTCN-3 test harness for legacy software



May 2006 Proceedings of the 2006 international workshop on Automation of software test AST '06

Publisher: ACM Press

Full text available: 📆 pdf(269.94 KB) Additional Information: full citation, abstract, references, index terms

We describe a prototype test harness for an embedded system which is the control software for a modern marine diesel engine. The operations of such control software requires complete certification. We adopt Testing and Test Control Notation (TTCN-3) to define test cases for this purpose. The main challenge in developing the test harness is to interface a generic test driver to the legacy software and provide a suitable interface for test engineers. The main contribution of this paper is a demons ...

Keywords: TTCN-3, embedded system, legacy software, test harness

13 Session: Migrating legacy engineering applications to Java Tom Dickens





November 2002 OOPSLA 2002 Practitioners Reports

Publisher: ACM Press

Full text available: pdf(2.31 MB) Additional Information: full citation, abstract, references, index terms

The Boeing Company, like many other engineering-centric companies, has a large base of legacy applications written in FORTRAN and C. In today's computing environment, maintaining and evolving these applications is becoming difficult. One such Boeing application, the Aero Grid and Paneling System (AGPS), is a 3D-geometry surface modeling tool. In the fall of 2001 we completed the migration of the AGPS source code from 300,000 lines of mixed C and FORTRAN to 150,000 lines of 100% Java. The migrati ...

Keywords: C, FORTRAN, Java, conversion, legacy, portability

Automated feedback for "fill in the gap" programming exercises

Nghi Truong, Paul Roe, Peter Bancroft

January 2005 Proceedings of the 7th Australasian conference on Computing education - Volume 42 ACE '05

Publisher: Australian Computer Society, Inc.

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(305.52 KB) terms

Timely feedback is a vital component in the learning process. It is especially important for beginner students in Information Technology since many have not yet formed an effective internal model of a computer that they can use to construct viable knowledge. Research has shown that learning efficiency is increased if immediate feedback is provided for students. Automatic analysis of student programs has the potential to provide immediate feedback for students and to assist teaching staff in the ...

Keywords: C#, XML, automated testing, black box, dynamic analysis, fill in the gap, instant feedback, java, white box

15 Supporting industrial hyperwebs: lessons in scalability

Kenneth M. Anderson

May 1999 Proceedings of the 21st international conference on Software engineering

Publisher: IEEE Computer Society Press

Full text available: pdf(1.47 MB) Additional Information: full citation, references, citings, index terms

Keywords: open hypermedia systems, scalability, software engineering

16 Access control: First experiences using XACML for access control in distributed



systems

Markus Lorch, Seth Proctor, Rebekah Lepro, Dennis Kafura, Sumit Shah October 2003 Proceedings of the 2003 ACM workshop on XML security

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(459.30 KB) terms, review

Authorization systems today are increasingly complex. They span domains of administration, rely on many different authentication sources, and manage permissions that can be as complex as the system itself. Worse still, while there are many standards that define authentication mechanisms, the standards that address authorization are less well defined and tend to work only within homogeneous systems. This paper presents XACML, a standard access control language, as one component of a distributed a ...

Keywords: access control decision, access control enforcement, authorization, distributed system security, policy language, policy management

17 Model-driven testing: Automation of GUI testing using a model-driven approach



Marlon Vieira, Johanne Leduc, Bill Hasling, Rajesh Subramanyan, Juergen Kazmeier May 2006 Proceedings of the 2006 international workshop on Automation of software test AST '06

Publisher: ACM Press

Full text available: pdf(244.25 KB) Additional Information: full citation, abstract, references, index terms

This paper describes an ongoing research on test case generation based on Unified Modeling Language (UML). The described approach builds on and combines existing techniques for data and graph coverage. It first uses the Category-Partition method to introduce data into the UML model. UML Use Cases and Activity diagrams are used to respectively describe which functionalities should be tested and how to test them. This combination has the potential to create a very large number of test cases. This ...

Keywords: GUI verification, UML, model based testing

18 Session 4: modeling and tools I: Modeling and generating application logic for data-



intensive web applications

Mihály Jakob, Holger Schwarz, Fabian Kaiser, Bernhard Mitschang

July 2006 Proceedings of the 6th international conference on Web engineering ICWE '06

Publisher: ACM Press

Full text available: pdf(283.71 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a new approach for the development of data-intensive web applications that depend on sophisticated application logic. E-Commerce web sites, online auction systems and large enterprise web portals fall into this category as they require comprehensive data access, data processing and data manipulation capabilities. However, existing methodologies mainly concentrate on modeling content, navigation and presentation aspects of read-only web sites. In our opinion these models are ...

Keywords: application logic modeling, code generation, data-intensive applications, object-orientation, web application design

19 Customization 1: Automation and customization of rendered web pages



Michael Bolin, Matthew Webber, Philip Rha, Tom Wilson, Robert C. Miller

October 2005 Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05

Publisher: ACM Press

Full text available: pdf(804.45 KB) Additional Information: full citation, abstract, references, index terms

On the desktop, an application can expect to control its user interface down to the last pixel, but on the World Wide Web, a content provider has no control over how the client will view the page, once delivered to the browser. This creates an opportunity for endusers who want to automate and customize their web experiences, but the growing complexity of web pages and standards prevents most users from realizing this opportunity. We describe Chickenfoot, a programming system embedded in the Fir ...

Keywords: web automation, web browsers

20 A framework for modeling and implementing visual notations with applications to





software engineering

Gennaro Costagliola, Vincenzo Deufemia, Giuseppe Polese

October 2004 ACM Transactions on Software Engineering and Methodology (TOSEM),

Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(3.77 MB)

Additional Information: full citation, abstract, references, index terms

We present a framework for modeling visual notations and for generating the corresponding visual programming environments. The framework can be used for modeling the diagrammatic notations of software development methodologies, and to generate visual programming environments with CASE tools functionalities. This is accomplished through an underlying modeling process based on the visual notation syntactic model of eXtended Positional Grammars (XPG, for short), and the associated parsing methodolo ...

Keywords: LR parsing, UML, meta-CASE, metamodeling, software engineering models, visual grammars, visual notations

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Micro patterns in Java code

Joseph (Yossi) Gil, Itay Maman

October 2005 ACM SIGPLAN Notices, Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05, Volume 40 Issue 10

Publisher: ACM Press

Full text available: pdf(322.39 KB) Additional Information: full citation, abstract, references, index terms

Micro patterns are similar to design patterns, except that micro patterns are stand at a lower, closer to the implementation, level of abstraction. Micro patterns are also unique in that they are mechanically recognizable, since each such pattern can be expressed as a formal condition on the structure of a class. This paper presents a catalog of 27 micropatterns defined on Java classes and interfaces. The catalog captures a wide spectrum of common programming practices, including a partic ...

Keywords: design patterns, implementation patterns, object-oriented programming, program analysis

22 Analysis of navigation behaviour in web sites integrating multiple information systems Bettina Berendt, Myra Spiliopoulou



March 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(281.14 KB) Additional Information: full citation, abstract, citings, index terms

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining crosslinked data from many sources. For the analysis of visitor naviga ...

Keywords: Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

Article abstracts with full text online: Testing web applications focusing on their



<u>specialties</u>

Lei Xu, Baowen Xu, Jixiang Jiang

January 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(255.38 KB) Additional Information: full citation, abstract, references, index terms

Nowadays, Web applications are very prevalent around the world, and it becomes more and more important to ensure their qualities by testing. However, due to the special characters of Web applications, traditional testing methods are not suitable for Web testing in many aspects. So based on the related work by now, this paper presents our research work in such areas as the Web application modeling, the test case generation, the detailed testing methods and techniques, the testing executing proces ...

Keywords: Performance Testing, Regression Testing, Testing Model, Usability Testing, Web Application

²⁴ IMCE: Integrated media creation environment

Brett Adams, Svetha Venkatesh, Ramesh Jain

August 2005 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 1 Issue 3

Publisher: ACM Press

Full text available: 📆 pdf(16.79 MB) Additional Information: full citation, abstract, references, index terms

We discuss the design goals for an integrated media creation environment (IMCE) aimed at enabling the average user to create media artifacts with professional qualities. The resulting requirements are implemented and we demonstrate the efficacy of the resulting system with the generation of two simple home movies. The significance for the average user seeking to create home movies lies in the flexible and automatic application of film principles to the task, removal of tedious low-level editing ...

Keywords: Home movie, computational media aesthetics, semantics, video collection

25 Process modeling in Web applications

Marco Brambilla, Stefano Ceri, Piero Fraternali, Ioana Manolescu

October 2006 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, index terms

While Web applications evolve towards ubiquitous, enterprise-wide or multienterprise information systems, they face new requirements, such as the capability of managing complex processes spanning multiple users and organizations, by interconnecting software provided by different organizations. Significant efforts are currently being invested in application integration, to support the composition of business processes of different companies, so as to create complex, multiparty business scenarios. ...

Keywords: Web applications, Web engineering, conceptual modeling, worfklows

26 Information systems interoperability: What lies beneath?

Jinsoo Park, Sudha Ram

October 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 4

Publisher: ACM Press

Full text available: 📆 pdf(824.78 KB) Additional Information: full citation, abstract, references, index terms



Interoperability is the most critical issue facing businesses that need to access information from multiple information systems. Our objective in this research is to develop a comprehensive framework and methodology to facilitate semantic interoperability among distributed and heterogeneous information systems. A comprehensive framework for managing various semantic conflicts is proposed. Our proposed framework provides a unified view of the underlying representational and reasoning formalism ...

Keywords: Information integration, mediators, ontology, semantic conflict resolution, semantic heterogeneity

27 Introducing application design and software engineering principles in introductory CS



courses: model-view-controller Java application framework Scot F. Morse, Charles L. Anderson

December 2004 Journal of Computing Sciences in Colleges, Volume 20 Issue 2

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(361.90 KB) Additional Information: full citation, abstract, references

This paper presents an approach for introducing application design and software engineering principles early in the CS curriculum. When courses are taught in a language such as Java, programming labs may involve writing a complete application or applet. In these cases it is possible to introduce notions of software engineering principles alongside a topic such as object-oriented design. This paper presents a simple application framework in Java that follows a Model-View-Controller design and tha ...

²⁸ Jungloid mining: helping to navigate the API jungle



David Mandelin, Lin Xu, Rastislav Bodík, Doug Kimelman

June 2005 ACM SIGPLAN Notices, Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05, Volume 40 Issue 6

Publisher: ACM Press

Full text available: 📆 pdf(255.98 KB) Additional Information: full citation, abstract, references, index terms

Reuse of existing code from class libraries and frameworks is often difficult because APIs are complex and the client code required to use the APIs can be hard to write. We observed that a common scenario is that the programmer knows what type of object he needs, but does not know how to write the code to get the object. In order to help programmers write API client code more easily, we developed techniques for synthesizing jungloid code fragments automatically given a simple query that de ...

Keywords: mining, program synthesis, reuse

Image Retrieval from the World Wide Web: Issues, Techniques, and Systems



M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 1

Publisher: ACM Press

Full text available: 📆 pdf(294.13 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection,

indexing, relevance feedback, search, similarity

Generating mobile device user interfaces for diagram-based modelling tools
Dejin Zhao, John Grundy, John Hosking



January 2006 Proceedings of the 7th Australasian User interface conference - Volume 50 AUIC '06

Publisher: Australian Computer Society, Inc.

Full text available: pdf(1.55 MB)

Additional Information: full citation, abstract, references, index terms

Mobile display devices such as phones and PDAs have become very widely available and used. However, most content on these devices is limited to text, static images and motion video. Displaying and interacting with dynamic diagrammatic content on such devices is difficult, as is engineering applications to implement such functionality. We describe a set of plug-in components for a meta-diagramming tool that enable a diagram type to be visualized and interacted with on mobile devices. Key features ...

Keywords: collaborative design, diagrams on mobile phones, mobile user interfaces

³¹ A holistic approach to service survivability



Angelos D. Keromytis, Janak Parekh, Philip N. Gross, Gail Kaiser, Vishal Misra, Jason Nieh, Dan Rubenstein, Sal Stolfo

October 2003 Proceedings of the 2003 ACM workshop on Survivable and selfregenerative systems: in association with 10th ACM Conference on Computer and Communications Security

Publisher: ACM Press

Full text available: pdf(1.58 MB)

Additional Information: full citation, abstract, references, index terms

We present SABER (Survivability Architecture: Block, Evade, React), a proposed survivability architecture that blocks, evades and reacts to a variety of attacks by using several security and survivability mechanisms in an automated and coordinated fashion. Contrary to the ad hoc manner in which contemporary survivable systems are built-using isolated, independent security mechanisms such as firewalls, intrusion detection systems and software sandboxes-SABER integrates several different techno ...

Keywords: intrusion detection, overlay networks, survivability

32 Multimodal, multidevice and beyond: Tool-supported single authoring for device





independence and multimodality

Rainer Simon, Florian Wegscheider, Konrad Tolar

September 2005 Proceedings of the 7th international conference on Human computer interaction with mobile devices & services MobileHCI '05

Publisher: ACM Press

Full text available: pdf(1.13 MB)

Additional Information: full citation, abstract, references, index terms

With the growing proliferation of mobile computing devices, the vision of the web anytime, anywhere and on any device is rapidly becoming a reality. Technologies enabling device-independent presentation and new interaction modalities like voice or gesture are moving from research to commercially available products. As a result, developers are faced with the increasing challenge of providing user interfaces that match the capabilities of the different devices available. Within this paper we prese ...

Keywords: device independence, mobile device, modality independence, multimodal interaction, single authoring, universal access, user interfaces, web authoring

33 Design fragments make using frameworks easier



George Fairbanks, David Garlan, William Scherlis

October 2006 ACM SIGPLAN Notices, Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming languages, systems, and applications OOPSLA '06, Volume 41 Issue 10

Publisher: ACM Press

Full text available: pdf(381.59 KB) Additional Information: full citation, abstract, references, index terms

Object oriented frameworks impose additional burdens on programmers that libraries did not, such as requiring the programmer to understand the method callback sequence, respecting behavior constraints within these methods, and devising solutions within a constrained solution space. To overcome these burdens, we express the repeated patterns of engagement with the framework as a design fragment. We analyzed the 20 demo applets provided by Sun and created a representative catalog of design ...

Keywords: design fragments, frameworks, object-oriented programming, patterns

34 Mobile data management: Middleware support for reconciling client updates and data





Thomas Phan, George Zorpas, Rajive Bagrodia

June 2004 Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04

Publisher: ACM Press

Full text available: pdf(4.80 MB) Additional Information: full citation, abstract, references, index terms

In mobile Internet applications, data can be transcoded, updated, and transferred across heterogenous clients. The problem then arises where updates made in the context of an initial transcoding results in content too stringently transcoded for subsequent clients, thereby causing loss of semantic value. We solve this problem by suggesting that the updates themselves can be transformed so that they can be applied directly to the original data instead of to the transcoded data; this approach allow ...

Keywords: client updates, data management, middleware, mobile computing, reconciliation, transcoding

35 Data integration and sharing II: Scientific data repositories: designing for a moving





Etzard Stolte, Christoph von Praun, Gustavo Alonso, Thomas Gross

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(739.27 KB)

Additional Information: full citation, abstract, references, citings, index

Managing scientific data warehouses requires constant adaptations to cope with changes in processing algorithms, computing environments, database schemas, and usage patterns. We have faced this challenge in the RHESSI Experimental Data Center (HEDC), a datacenter for the RHESSI NASA spacecraft. In this paper we describe our experience in developing HEDC and discuss in detail the design choices made. To successfully accommodate typical adaptations encountered in scientific data management systems ...

36 Derivation of UI from task: systematic processes, methods, and tools: Linking GUI elements to tasks: supporting an evolutionary design process Andreas Wolff, Peter Forbrig, Anke Dittmar, Daniel Reichart





September 2005 Proceedings of the 4th international workshop on Task models and diagrams TAMODIA '05

Publisher: ACM Press

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references

In this paper we discuss an approach for linking GUI specifications to more abstract dialogue models and supporting an evolutionary design process. These specifications are linked to task models describing behavioural characteristics. First prototypes of interactive systems are interactively generated. The automatically generated XUL specifications are refined using a GUI editor, which allows replacing of user interface elements by other elements or components. Components are predesigned parts o ...

Keywords: GUI, HCI, XIML, XUL, model-based design, object models, patterns, task models

An experimental analysis of GAME: a generic automated marking environment

Michael Blumenstein, Steven Green, Ann Nguyen, Vallipuram Muthukkumarasamy

June 2004 ACM SIGCSE Bulletin, Proceedings of the 9th annual SIGCSE conference on Innovation and technology in computer science education ITiCSE. '04, Volume 36 Issue 3

Publisher: ACM Press

Full text available: pdf(193.22 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the Generic Automated Marking Environment (GAME) and provides a detailed analysis of its performance in assessing student programming projects and exercises. GAME has been designed to automatically assess programming assignments written in a variety of languages based on the "structure" of the source code and the correctness of the program's output. Currently, the system is able to mark programs written in Java, C++ and the C language. To use the system, instructors are requ ...

Keywords: automatic assessment, generic marking environment

38 Program families: Feature refactoring a multi-representation program into a product



line

Salvador Trujillo, Don Batory, Oscar Diaz

October 2006 Proceedings of the 5th international conference on Generative programming and component engineering GPCE '06

Publisher: ACM Press

Full text available: pdf(251.05 KB) Additional Information: full citation, abstract, references, index terms

Feature refactoring is the process of decomposing a program into aset of modules, called features, that encapsulate increments in program functionality. Different compositions of features yield different programs. As programs are defined using multiple representations, such as code, makefiles, and documentation, feature refactoring requires all representations to be factored. Thus, composing features produces consistent representations of code, make files, documentation, etc. for a target progra ...

Keywords: AHEAD, feature-oriented programming, multiple representations, program synthesis, refactoring, refinements, software product lines

39 User interfaces: semantic tagging: Knowing the user's every move: user activity



tracking for website usability evaluation and implicit interaction
Richard Atterer, Monika Wnuk, Albrecht Schmidt

May 2006 Proceedings of the 15th international conference on World Wide Web

WWW '06

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we investigate how detailed tracking of user interaction can be monitored using standard web technologies. Our motivation is to enable implicit interaction and to ease usability evaluation of web applications outside the lab. To obtain meaningful statements on how users interact with a web application, the collected information needs to be more detailed and fine-grained than that provided by classical log files. We focus on tasks such as classifying the user with regard to compute ...

Keywords: HTTP proxy, implicit interaction, mouse tracking, user activity tracking, website usability evaluation

40 Article abstracts with full text online: Component evolution and versioning state of the





Alexander Stuckenholz

January 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(213.99 KB) Additional Information: full citation, abstract, references, index terms

Emerging component-based software development architectures promise better re-use of software components, greater flexibility, scalability and higher quality of services. But like any other piece of software too, software components are hardly perfect, when being created. Problems and bugs have to be fixed and new features need to be added. This paper analyzes the problem of component evolution and the incompatibilities which result during component upgrades. We present the state of the art in co ...

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41 Aspects, implied scenarios: Automating software architecture exploration with

M2Aspects Ingolf H. Krüger, Gunny Lee, Michael Meisinger

May 2006 Proceedings of the 2006 international workshop on Scenarios and state machines: models, algorithms, and tools SCESM '06

Publisher: ACM Press

Full text available: Ppdf(323.93 KB) Additional Information: full citation, abstract, references, index terms

An important step in the development of large-scale distributed reactive systems is the design of effective system architectures. The early availability of prototypes facilitates the selection of the most effective architecture for a given situation. Although it is very beneficial to evaluate and compare architectures for functionality and quality attributes before implementing or changing the entire system, this step is often skipped due to the required time and effort. In ...

Keywords: AspectJ, architecture comparison, aspect-oriented programming, aspects, components, distributed reactive systems, roles, scenarios, services, software architecture exploration

42 Sensible agents: an implemented multi-agent system and testbed



K. S. Barber, R. McKay, M. MacMahon, C. E. Martin, D. N. Lam, A. Goel, D. C. Han, J. Kim May 2001 Proceedings of the fifth international conference on Autonomous agents Publisher: ACM Press

Full text available: 📆 pdf(560.99 KB) Additional Information: full citation, abstract, references, index terms

Sensible Agents have been engineered to solve distributed problems in complex, uncertain, and dynamic domains. Each Sensible Agent is composed of four modules: the Action Planner, Perspective Modeler, Conflict Resolution Advisor, and Autonomy Reasoner. These modules give Sensible Agents the abilities to plan, model, resolve individual conflicts, and change agent system organization. Two component suites provide a variety of user- oriented features: the Sensible Agent Run- time Environment (...

43 Session 5: Visual exploration of function call graphs for feature location in complex



software systems

Johannes Bohnet, Jürgen Döllner

September 2006 Proceedings of the 2006 ACM symposium on Software visualization

SoftVis '06

Publisher: ACM Press

Full text available: 📆 pdf(474.65 KB) Additional Information: full citation, abstract, references, index terms

Maintenance, reengineering, and refactoring processes of software systems are typically driven and organized in terms of features. Feature change requests need to be translated into changes in source code, which is a highly cost intensive and time consuming task when complex legacy software systems are concerned; their documentation is likely to be outdated and incomplete. In this paper, we propose a prototype tool that supports users in locating and understanding feature implementation in large ...

Keywords: dynamic analysis, feature analysis, feature location, program comprehension, reverse engineering, software visualization

44 Research papers: architecture & design I: Efficient exploration of service-oriented



architectures using aspects

Ingolf H. Krüger, Reena Mathew, Michael Meisinger

May 2006 Proceeding of the 28th international conference on Software engineering ICSE '06

Publisher: ACM Press

Full text available: pdf(462.78 KB) Additional Information: full citation, abstract, references, index terms

An important step in the development of large-scale distributed, reactive systems is the design of architectures that effectively support the systems' purposes. Early prototypes help to decide upon the most effective architecture for a given situation. Questions to answer include the boundaries of components, communication topologies and of replication. It is desirable to evaluate and compare architectures for functionality and quality attributes before implementing or chang ...

Keywords: architecture comparison, aspect-oriented programming, aspectJ, aspects, components, distributed reactive systems, roles, service-oriented development, services, software architecture exploration

45 RTES demo system2004



Shikha Ahuja, Ted Bapty, Harry Cheung, Michael Haney, Zbigniew Kalbarczyk, Akhilesh Khanna, Jim Kowalkowski, Derek Messie, Daniel Mosse, Sandeep Neema, Steve Nordstrom, Jae Oh, Paul Sheldon, Shweta Shetty, Long Wang, Di Yao July 2005 ACM SIGBED Review, Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(333.82 KB) Additional Information: full citation, abstract, references, index terms

The RTES Demo System 2004 is a prototype for reliable, fault-adaptive infrastructure applicable to commodity-based dedicated application computer farms, such as the Level 2/3 trigger for the proposed BTeV high energy physics project. This paper describes the prototype, and its demonstration at the 11th IEEE Real Time and Embedded Technology Applications Symposium, RTAS 2005.

46 Getting and giving information: An adaptive viewing application for the web on



personal digital assistants

Kwang Bok Lee, Roger A. Grice

October 2003 Proceedings of the 21st annual international conference on **Documentation**

Publisher: ACM Press

Full text available: pdf(536.50 KB) Additional Information: full citation, abstract, references, index terms

With the proliferation of Personal Digital Assistants (PDAs), people are using such small devices to access the web; however, the web is not accommodating such access. Here, for small devices' users, we present an efficient method for extracting readable documents from XML-based files, which will be used for information streams for mobile Internet access. We designed a selector for handling information streams to extract the customized information based on the user request for the small screen d ...

Keywords: adaptive user interfaces (AUIs), intermediaries and web intermediaries (WBI), personal digital assistants (PDAs)

47 Toward building grid applications in bioinformatics

Xiujun Gong, Kensuke Nakamura, Kei Yura, Nobuhiro Go

January 2006 Proceedings of the 2006 Australasian workshops on Grid computing and e-research - Volume 54 ACSW Frontiers '06

Publisher: Australian Computer Society, Inc.

Full text available: pdf(297.39 KB) Additional Information: full citation, abstract, references, index terms

In silico bioinformatics experiments involve integration of and access to computational tools and biological databases. The emerging grid computing technologies enable bioinformatics scientists to conduct their researches in a virtual laboratory, in which they share public databases, computational tools as well as their analysis workflows. However, the development of grid applications is still a nightmare for general bioinformatics scientists, due to the lack of grid programming environments, st ...

Keywords: active solution recommendation, bioinformatics, grid application, task mapping editor

48 Multi-document summarization by visualizing topical content

Rie Kubota Ando, Branimir K. Boguraev, Roy J. Byrd, Mary S. Neff

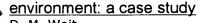
April 2000 NAACL-ANLP 2000 Workshop on Automatic summarization - Volume 4

Publisher: Association for Computational Linguistics

Full text available: pdf(1.66 MB) Additional Information: full citation, abstract, references

This paper describes a framework for multi-document summarization which combines three premises: coherent themes can be identified reliably; highly representative themes, running across subsets of the document collection, can function as multi-document summary surrogates; and effective end-use of such themes should be facilitated by a visualization environment which clarifies the relationship between themes and documents. We present algorithms that formalize our framework, describe an implementa ...

49 Agile methods: Requirements interaction management in an eXtreme programming



D. M. Woit

May 2005 Proceedings of the 27th international conference on Software engineering ICSE '05, Proceedings of the 27th international conference on Software engineering ICSE '05

Publisher: ACM Press, IEEE Computer Society

Publisher Site

Full text available: pdf(188.02 KB)

Additional Information: full citation, abstract, references, index terms

This work reports experience applying the process of Requirements Interaction Management (RIM) within the context of developing a commercial, internet-based software application in an industrial venue, employing the eXtreme Programming (XP) methodology. We describe our means of managing the interactions -- by extending the standard XP requirements process while maintaining consistency with the principles of XP

itself. We outline our rationale for modifying the XP requirements process, and provid ...

Keywords: dependency analysis, extreme programming, interaction analysis, requirements engineering, requirements interaction management, system analysis, system specification, user stories

50 Web-based tools, systems and environments: An approach to lightweight deployment



of web services

J. Gergic, J. Kleindienst, Y. Despotopoulos, J. Soldatos, G. Patikis, A. Anagnostou, L. Polymenakos

July 2002 Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02

Publisher: ACM Press

Full text available: pdf(296.74 KB) Additional Information: full citation, abstract, references, index terms

Web Services is gradually becoming the most popular distributed computing paradigm for the Internet. Although several vendor and research efforts are in progress, fully-fledged deployment of Web Services in a wide scale has not been accomplished yet. The present contribution describes a framework for lightweight deployment of Web Services. This framework can be seen as a contribution to a smooth transition step towards a complete large-scale deployment. The paper starts with a description of dat ...

Keywords: CATCH-2004, EIRI, HTTP, SOAP, UDDI, WSDL, XML, web services

51 Hot topic - industrially proving SPIRIT consortium standards for design chain integration: Industrially proving the SPIRIT consortium specifications for design chain integration



Christopher K. Lennard, Victor Berman, Saverio Fazzari, Mark Indovina, Cary Ussery, Marino Strik, John Wilson, Olivier Florent, François Rémond, Pierre Bricaud

March 2006 Proceedings of the conference on Design, automation and test in Europe: Designers' forum DATE '06

Publisher: European Design and Automation Association

Additional Information: full citation, abstract, references Full text available: pdf(1.23 MB)

There has traditionally been significant engineering overhead required for the integration of multi-vendor tool and IP design methodologies. Making design-chain integration efficient is the key objective of the SPIRIT Consortium. This Special Session paper provides an insight into how the specifications of the SPIRIT Consortium are being adopted in the industry today. We present 3 production design-flow stories which show improved efficiency gained through use of the SPIRIT Consortium specificat ...

52 OOPSLA practitioner reports chair's welcome: Using model-driven engineering to complement software product line engineering in developing software defined radio components and applications



Bruce Trask, Dominick Paniscotti, Angel Roman, Vikram Bhanot

October 2006 Companion to the 21st ACM SIGPLAN conference on Object-oriented programming languages, systems, and applications OOPSLA '06

Publisher: ACM Press

Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, index terms

This paper details the application of Software Product Lines (SPL)¹⁶ and Model-Driven Engineering (MDE)15 to the software defined radio domain. More specifically it is an experience report emphasizing the synergy ¹⁷ resulting from combining MDE and SPL technologies. The software defined radio domain has very unique characteristics as its systems typically are a confluence of a number of typically challenging aspects of software development. To name a few, these s ...

Keywords: development, domain, generation, language, model

53 Ubiquitous computing: Direct manipulation of user interfaces for migration

José Pascual Molina Massó, Jean Vanderdonckt, Pascual González López

January 2006 Proceedings of the 11th international conference on Intelligent user interfaces IUI '06

Publisher: ACM Press

Full text available: pdf(746.59 KB) Additional Information: full citation, abstract, references, index terms

From a topological model of a working environment, MigriXML automatically generates a virtual reality environment for controlling the run-time migration of a graphical user interface from one computing platform to another one (e.g., from a desktop to a pocket computer), from one interaction surface to another (e.g., from a laptop to a wall screen) at run-time. For this purpose, any user interface subject to migration is described in USer Interface eXtensible Markup Language regarding its look & ...

Keywords: migration, virtual environment

54 Educator's symposium: The practice of specifying requirements using executable

acceptance tests in computer science courses

Grigori Melnik, Frank Maurer

October 2005 Companion to the 20th annual ACM SIGPLAN conference on Objectoriented programming, systems, languages, and applications OOPSLA

Publisher: ACM Press

Full text available: pdf(392.00 KB) Additional Information: full citation, abstract, references, index terms

This report describes the practice of using executable acceptance testing for specifying programming assignments in software engineering courses. We summarize experiences from two courses introduced in two academic institutions over four semesters -- both from students' and instructors' perspectives. Examples of projects and the discussion of the assignment flows are given. The paper highlights testing as an all-encompassing activity in software development projects. It also contains recommendat ...

Keywords: FIT, academic projects, executable acceptance testing, requirements specification

The Quiver system

Christopher C. Ellsworth, James B. Fenwick, Barry L. Kurtz

March 2004 ACM SIGCSE Bulletin, Proceedings of the 35th SIGCSE technical symposium on Computer science education SIGCSE '04, Volume 36 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(249.60 KB)

The Ouiver (OUIz VERification) System is an Internet server for building, maintaining, and administering programming quizzes. It is similar to the online judges used for programming contests but differs in that it targets the classroom use of programming quizzes as a teaching aid and evaluation tool. It can provide very detailed feedback regarding quiz behavior so that the student can debug her program. This system is developed as part of the grant "Intra-Curriculum Software Engineering Educatio ...

Keywords: Quizzing systems, automated testing

⁵⁶ Q focus: system evolution: The heart of eclipse

Dan Rubel

October 2006 Queue, Volume 4 Issue 8

Publisher: ACM Press

Full text available: pdf(766.35 KB) htm(21.08 KB)

Additional Information: full citation, abstract

A look inside and extensible plug-in architecture

57 Full Technical Papers: Dynamic web page authoring by example using ontology-



based domain knowledge José A. Macías, Pablo Castells

January 2003 Proceedings of the 8th international conference on Intelligent user interfaces

Publisher: ACM Press

Full text available: pdf(469.78 KB) Additional Information: full citation, abstract, references, index terms

Authoring dynamic web pages is an inherently difficult task. We present DESK, an interactive authoring tool that allows the customization of dynamic page generation procedures with no a-priori tool-specific skill requirements from authors. Our approach consists of combining Programming By Example (PBE) techniques with an ontology-based representation of knowledge displayed in web pages. DESK acts as a client-side complement of a dynamic web page generation system, PEGASUS, which generates HTML

Keywords: knowledge-based UI design, model-based paradigm, ontology, programming by example

58 Tool demonstrations I: The Ecce and Logen partial evaluators and their web



interfaces

Michael Leuschel, Dan Elphick, Mauricio Varea, Stephen-John Craig, Marc Fontaine January 2006 Proceedings of the 2006 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation PEPM '06

Publisher: ACM Press

Full text available: pdf(515.44 KB) Additional Information: full citation, abstract, references, index terms

We present ECCE and LOGEN, two partial evaluators for Prolog using the online and offline approach respectively. We briefly present the foundations of these tools and discuss various applications. We also present new implementations of these tools, carried out in Ciao Prolog. In addition to a command-line interface new user-friendly web interfaces were developed. These enable non-expert users to specialise logic programs using a web browser, without the need for a local installatio ...

Keywords: logic programming, partial deduction, partial evaluation, program transformation, prolog, web programming

59 Process and workflow: Lynx: an open architecture for catalyzing the deployment of



interactive digital government workflow-based systems Iván P. Vélez, Bienvenido Vélez

May 2006 Proceedings of the 2006 international conference on Digital government research dg.o '06

Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, index terms

We introduce Lynx, a new email extension for workflow systems based on Web Services. Web service based workflows provide support for aggregating web services into new higher-level web services by means of process composition. This approach does not usually support direct interaction with people. On the other hand, traditional collaboration tools like email or instant messaging do not provide the necessary support for structured business processes. Lynx provides a web service through which a work ...

Keywords: BPEL, E-mail, XML, digital government, web services, workflow, xforms

60 Web-based educational applications: Online curriculum on the semantic Web: the



CSD-UoC portal for peer-to-peer e-learning

Dimitris Kotzinos, Sofia Pediaditaki, Apostolos Apostolidis, Nikolaos Athanasis, Vassilis Christophides

May 2005 Proceedings of the 14th international conference on World Wide Web Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, index terms

Online Curriculum Portals aim to support networks of instructors and learners by providing a space of convergence for enhancing peer-to-peer learning interactions among individuals of an educational institution. To this end, effective, open and scalable elearning systems are required to acquire, store, and share knowledge under the form of learning objects (LO). In this paper, we are interested in exploiting the semantic relationships that characterize these LOs (e.g., prerequisite, part-of or ...

Keywords: IEEE-LOM, e-learning portals, jetspeed portlets, semantic Web

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61 Aerospace and military applications: simulation in aerospace II: distributed simulations: Usability study of the virtual test bed and distributed simulation Jeffrey W. Dawson, Ping Chen, Yanshen Zhu

December 2005 Proceedings of the 37th conference on Winter simulation WSC '05 **Publisher: Winter Simulation Conference**

Full text available: The pdf(197.49 KB) Additional Information: full citation, abstract, references

Improving the usability of a Distributed Simulation System (DSS) test bed is the focus of this paper. An introduction to the field of usability is given, followed by a discussion of the characteristics of DSSs. Then the usability of DSSs is considered. The Virtual Test Bed (VTB), a sample DSS we have improved the usability of, is described. The methodology used to improve the VTB's usability is given. With the goal of improving usability for end users, proto-typing of a graphical user interface ...

Research papers: test & analysis II: HDD: hierarchical delta debugging





Ghassan Misherghi, Zhendong Su

May 2006 Proceeding of the 28th international conference on Software engineering ICSE '06

Publisher: ACM Press

Full text available: pdf(274.95 KB) Additional Information: full citation, abstract, references, index terms

Inputs causing a program to fail are usually large and often contain information irrelevant to the failure. It thus helps debugging to simplify program inputs. The Delta Debugging algorithm is a general technique applicable to minimizing all failure-inducing inputs for more effective debugging. In this paper, we present HDD, a simple but effective algorithm that significantly speeds up Delta Debugging and increases its output quality on tree structured inputs such as XML. Instead of treating the ...

Keywords: automated debugging, delta debugging

63 Technical papers: component technologies: The Vienna Component Framework enabling composition across component models

Johann Oberleitner, Thomas Gschwind, Mehdi Jazayeri

May 2003 Proceedings of the 25th International Conference on Software **Engineering**

Publisher: IEEE Computer Society

Full text available: Additional Information: full citation, abstract, references, index terms

Publisher Site

The Vienna Component Framework (VCF) supports the interoperability and composability of components across different component models, a facility that is lacking in existing component models. The VCF presents a unified component model---implemented by a façade component---to the application programmer. The programmer may write new components by composing components from different component models, accessed through the VCF. The model supports common component features, namely, methods, prop ...

A pluggable architectural model and a formally specified programming language independent API for an ontological knowledge base server

Alexander Paar, Jürgen Reuter, Jaron Schaeffer

November 2005 Proceedings of the 2005 Australasian Ontology Workshop - Volume 58 AOW '05

Publisher: Australian Computer Society, Inc.

Full text available: pdf(441.53 KB) Additional Information: full citation, abstract, references, index terms

Recently, ontology engineering has become ever more important when it comes to conceptualize knowledge. However, writing software applications that operate on ontological knowledge still suffers from a lack of connectivity provided by available ontology management systems. Interfaces of ontology management systems are either based on error prone programming language agnostic remoting protocols or they are restricted to one particular programming language. We implemented an ontological Knowledge ...

Keywords: description logics, ontology management, web ontology language (OWL)

65 A web query system for heterogeneous government data

Nancy Wiegand, Naijun Zhou, Isabel F. Cruz, William Sunna

May 2004 Proceedings of the 2004 annual national conference on Digital government research dg.o '04

Publisher: Digital Government Research Center

Full text available: pdf(97.16 KB) Additional Information: full citation, abstract, references

This paper describes a Web-based query system for semantically heterogeneous government-produced data. Geospatial Web-based information systems and portals are currently being developed by various levels of government along with the GIS community. Typically, these sites provide data discovery and download capabilities but do not include the ability to pose DBMS type queries. One of the main problems in querying distributed government data sources is the difference in semantics used by various jur ...

66 Between u and i: Two worlds apart: bridging the gap between physical and virtual

media for distributed design collaboration

Katherine M. Everitt, Scott R. Klemmer, Robert Lee, James A. Landay

April 2003 Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM Press

Full text available: pdf(2.13 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

A tension exists between designers' comfort with physical artifacts and the need for effective remote collaboration: physical objects live in one place. Previous research and technologies to support remote collaboration have focused on shared electronic media. Current technologies force distributed teams to choose between the physical tools they





prefer and the electronic communication mechanisms available. We present Distributed Designers' Outpost, a remote collaboration system based on The Desi ...

Keywords: CSCW, computer-mediated communication, distributed awareness, remote interaction, tangible user interfaces

67 Session I: Plugging Haskell in

André Pang, Don Stewart, Sean Seefried, Manuel M. T. Chakravarty September 2004 **Proceedings of the 2004 ACM SIGPLAN workshop on Haskell Haskell**

'04

Publisher: ACM Press

Full text available: pdf(153.19 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

Extension languages enable users to expand the functionality of an application without touching its source code. Commonly, these languages are dynamically typed languages, such as Lisp, Python, or domain-specific languages, which support runtime *plugins* via dynamic loading of components. We show that Haskell can be comfortably used as a statically typed extension language for both Haskell and foreign-language applications supported by the Haskell FFI, and that it can perform type-safe dyn ...

Keywords: dynamic loading, dynamic typing, extension languages, functional programming, plugins, staged type inference

68 Article abstracts with full text online: Automated data verification in a format-free



environment

Michael Collins, Charles Reynolds, Christine Le, Cihan Varol, Coskun Bayrak March 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(241.83 KB) Additional Information: full citation, abstract, references, index terms

Data collection and interpretation are vital for innumerable purposes: both commercial and academic. Sifting through vast mountains of data to separate correct information from incorrect can be expensive both in terms of money and of time. Automation of as much of this process as possible is the key to collecting useful information in an efficient and timely manner. This paper discusses a system designed to automate the comparison of raw collected data to store of previously verified data. This ...

Keywords: data mining, document analysis, mining methods and algorithms, verification

Practitioner reports: Using predicate fields in a highly flexible industrial control system



Shay Artzi, Michael D. Ernst

October 2005 Companion to the 20th annual ACM SIGPLAN conference on Objectoriented programming, systems, languages, and applications OOPSLA '05

Publisher: ACM Press

Full text available: 📆 pdf(229.51 KB) Additional Information: full citation, abstract, references, index terms

Predicate fields allow an object's structure to vary at runtime based on the object's state: a predicate field is present or not, depending on the values of other fields. Predicate fields and related concepts have not previously been evaluated outside a research environment. We present a case study of two industrial applications with similar requirements, one of which uses predicate fields and one of which does not. The use of predicate fields was motivated by requirements for high flexibility, ...

Keywords: classifiers, experimental control system, predicate fields, predicates, structure, user interface development

70 Industry track papers and presentations: product lines: Integrating hundred's of products through one architecture: the industrial IT architecture



Lars G. Bratthall, Robert van der Geest, Holger Hofmann, Edgar Jellum, Zbigniew Korendo, Robert Martinez, Michal Orkisz, Christian Zeidler, Johan S Andersson

May 2002 Proceedings of the 24th International Conference on Software **Engineering**

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

During the last few years, software product line engineering has gained significant interest as a way for creating software products faster and cheaper. But what architecture is needed to integrate huge amounts of products, from different product lines? This paper describes such an architecture and its support processes and tools. Through cases, it is illustrated how the architecture is used to integrate new --- and old --- products in such diverse integration projects as vessel motion control, ...

71 Towards a taxonomy of software connectors



Nikunj R. Mehta, Nenad Medvidovic, Sandeep Phadke

June 2000 Proceedings of the 22nd international conference on Software engineering

Publisher: ACM Press

Full text available: pdf(184.27 KB)

Additional Information: full citation, abstract, references, citings, index

Software systems of today are frequently composed from prefabricated, heterogeneous components that provide complex functionality and engage in complex interactions. Existing research on component-based development has mostly focused on component structure, interfaces, and functionality. Recently, software architecture has emerged as an area that also places significant importance on component interactions, embodied in the notion of software connectors. However, the current level of underst ...

Keywords: classification, software architecture, software connector, taxonomy

72 Task-based design: Task models as basis for requirements engineering and software





execution

Daniel Reichart, Peter Forbrig, Anke Dittmar

November 2004 Proceedings of the 3rd annual conference on Task models and diagrams TAMODIA '04

Publisher: ACM Press

Full text available: pdf(661.31 KB) Additional Information: full citation, abstract, references

In this paper we discuss an approach linking GUI specifications to abstract dialog models. Both specifications are based on task models describing behavioral features. It will be shown how first prototypes of interactive systems, which are generated from user interface models, can help to capture requirements. Users can interactively play with prototypes. Tool support is also provided for co-operative work of different users, which starts with abstract canonical prototypes that can evolve to con ...

Keywords: HCI, XIML, XUL, animated user-interface prototypes, model-based design, object models, task models

73 Interaction in the real world: The missing link: augmenting biology laboratory



notebooks

Wendy E. Mackay, Guillaume Pothier, Catherine Letondal, Kaare Bøegh, Hans Erik Sørensen October 2002 Proceedings of the 15th annual ACM symposium on User interface software and technology

Publisher: ACM Press

Full text available: pdf(814.78 KB)

<u>mov(258.00</u> bytes) wmv

Additional Information: full citation, abstract, references, citings, index

terms

(258.00 bytes)

Using a participatory design process, we created three prototype augmented laboratory notebooks that provide the missing link between paper, physical artifacts and on-line data. The final a-book combines a graphics tablet and a PDA. The tablet captures writing on the paper notebook and the PDA acts as an "interaction lens" or window between physical and electronic documents. Our approach is document-centered, with a software architecture based on layers of physical and electronic informat ...

Keywords: SVG, a-book, augmented laboratory note-books, augmented reality, information layers, interaction lens, interactive paper

74 Managing large class assessment

Anthony Rhodes, Karyn Bower, Peter Bancroft

January 2004 Proceedings of the sixth conference on Australasian computing education - Volume 30 ACE '04

Publisher: Australian Computer Society, Inc.

Full text available: pdf(126.15 KB)

Additional Information: full citation, abstract, references, citings, index terms

ExamGen is a software application developed at Queensland University of Technology to assist instructors with assessment in large classes (250+). The ExamGen program was developed for the Faculty of Information Technology in response to an investigation into appropriate assessment alternatives designed to cope with the ever increasing enrolment numbers in tertiary institutions, in particular in Information Technology. This paper describes how ExamGen is being used to develop test banks of multip ...

Keywords: exmination generation software, large class assessment support, multiple choice questions, short answers

75 The distributed ASCI Supercomputer project



October 2000 ACM SIGOPS Operating Systems Review, Volume 34 Issue 4

Publisher: ACM Press

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, citings

The Distributed ASCI Supercomputer (DAS) is a homogeneous wide-area distributed



system consisting of four cluster computers at different locations. DAS has been used for research on communication software, parallel languages and programming systems, schedulers, parallel applications, and distributed applications. The paper gives a preview of the most interesting research results obtained so far in the DAS project.

76 Geometric representations and applications: Automated mixed dimensional modelling



for the finite element analysis of swept and revolved CAD features

T T Robinson, C G Armstrong, G McSparron, A Quenardel, H Ou, R M McKeag June 2006 Proceedings of the 2006 ACM symposium on Solid and physical modeling **SPM '06**

Publisher: ACM Press

Full text available: pdf(2.32 MB)

Additional Information: full citation, abstract, references

Thin-walled aerospace structures can be idealised as dimensionally reduced shell models. These models can be analysed in a fraction of the time required for a full 3D model yet still provide remarkably accurate results. The disadvantages of this approach are the time taken to derive the idealised model, though this is offset by the ease and rapidity of design optimisation with respect to parameters such as shell thickness, and the fact that the stresses in the local 3D details can not be resolve ...

77 Managing UI pattern collections



Junhua Deng, Elizabeth Kemp, E. G. Todd

July 2005 Proceedings of the 6th ACM SIGCHI New Zealand chapter's international conference on Computer-human interaction: making CHI natural CHINZ

Publisher: ACM Press

Full text available: pdf(210.97 KB) Additional Information: full citation, abstract, references, index terms

A large number of user interface (UI) pattern collections have been developed by different researchers. This paper discusses the main requirements for a tool to be used by researchers and user interface designers that can manage a repository of possibly disparate pattern collections. An analysis of the main requirements and specifications for such a tool has been carried out. Pattern tools have been surveyed to identify the functionality they provide. A framework for a UI pattern management tool ...

Keywords: UI patterns, User Interface Design, pattern collections, pattern tools, pattern use

78 The talent system: TEXTRACT architecture and data model



Mary S. Neff, Roy J. Byrd, Branimir K. Boguraev

May 2003 Proceedings of the HLT-NAACL 2003 workshop on Software engineering and architecture of language technology systems - Volume 8 SEALTS '03

Publisher: Association for Computational Linguistics

Full text available: The pdf(362.91 KB) Additional Information: full citation, abstract, references

We present the architecture and data model for TEXTRACT, a document analysis framework for text analysis components. The framework and components have been deployed in research and industrial environments for text analysis and text mining tasks.

79 Interacting with collections: Enhancing usability in CITIDEL: multimodal, multilingual,





and interactive visualization interfaces

Saverio Perugini, Kathleen McDevitt, Ryan Richardson, Manuel A. Pérez-Quiñones, Rao Shen, Naren Ramakrishnan, Chris Williams, Edward A. Fox

June 2004 Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries **JCDL '04**

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(828.82 KB) terms

We describe four usability-enhancing interfaces to CITIDEL aimed at improving the user experience and supporting personalized information access by targeted communities. These comprise: a multimodal interaction facility with capability for out-of-turn input, interactive visualizations for exploratory analysis, a translation center exposing multilingual interfaces, as well as traditional usability enhancements. Pilot studies demonstrate the resulting improvements in quality, as measured across a ...

Keywords: community translation, interactive visualization, interfaces, out-of-turn interaction

80 An Infrastructure to Functionally Test Designs Generated by Compilers Targeting **FPGAs**



Rui Rodrigues, Joao M. P. Cardoso

March 2005 Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '05

Publisher: IEEE Computer Society

Full text available: pdf(86.92 KB) Additional Information: full citation, abstract, index terms

This paper presents an infrastructure to test the functionality of the specific architectures output by a high-level compiler targeting dynamically reconfigurable hardware. It results in a suitable scheme to verify the architectures generated by the compiler, each time new optimization techniques are included or changes in the compiler are performed. We believe this kind of infrastructure is important to verify, by functional simulation, further research techniques, as far as compilation to Fiel ...

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81 Invited papers on the frontiers of software practice: Patterns, frameworks, and

middleware: their synergistic relationships

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Douglas C. Schmidt, Frank Buschmann

May 2003 Proceedings of the 25th International Conference on Software **Engineering**

Publisher: IEEE Computer Society

Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, citings, index

The knowledge required to develop complex software has historically existed in programming folklore, the heads of experienced developers, or buried deep in the code. These locations are not ideal since the effort required to capture and evolve this knowledge is expensive, time-consuming, and error-prone. Many popular software modeling methods and tools address certain aspects of these problems by documenting how a system is designed. However, they only support limited portions of software ...

82 A Web-based browsing and spatial analysis system for regional natural resource





analysis and mapping

Ranga Raju Vatsavai, Thomas E. Burk, B. Tyler Wilson, Shashi Shekhar November 2000 Proceedings of the 8th ACM international symposium on Advances in geographic information systems

Publisher: ACM Press

Full text available: 7 pdf(1.04 MB)

Additional Information: full citation, abstract, index terms

Proper use and monitoring of our land and environmental resources for quality of life and sustainable growth considerations require that timely and accurate data on land cover and land use be regularly available. Remote sensing is an appropriate tool and NOAA's 1-km AVHRR time series imagery has proven to be an invaluable input for regional level natural resource mapping and monitoring. Many previous efforts addressing the use of satellitederived data for land cover and land use classificati ...

Keywords: Web GIS, client/server, load balancing

83 Support for location: An architecture for privacy-sensitive ubiquitous computing Jason I. Hong, James A. Landay June 2004 Proceedings of the 2nd international conference on Mobile systems,



applications, and services MobiSys '04

Publisher: ACM Press

Full text available: 🎁 pdf(658.54 KB)

Additional Information: full citation, abstract, references, citings, index terms

Privacy is the most often-cited criticism of ubiquitous computing, and may be the greatest barrier to its long-term success. However, developers currently have little support in designing software architectures and in creating interactions that are effective in helping end-users manage their privacy. To address this problem, we present Confab, a toolkit for facilitating the development of privacy-sensitive ubiquitous computing applications. The requirements for Confab were gathered through an an ...

Keywords: confab, location, privacy, toolkit, ubiquitous computing

84 Meta data management: Rondo: a programming platform for generic model





management

Sergey Melnik, Erhard Rahm, Philip A. Bernstein

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(392.38 KB) Additional Information: full citation, abstract, references, index terms

Model management aims at reducing the amount of programming needed for the development of metadata-intensive applications. We present a first complete prototype of a generic model management system, in which high-level operators are used to manipulate models and mappings between models. We define the key conceptual structures: models, morphisms, and selectors, and describe their use and implementation. We specify the semantics of the known model-management operators applied to these structures, ...

85 Slideshow: functional presentations



Robert Bruce Findler, Matthew Flatt

September 2004 ACM SIGPLAN Notices, Proceedings of the ninth ACM SIGPLAN international conference on Functional programming ICFP '04, Volume

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(1.11 MB)

Among slide-presentation systems, the dominant application offers essentially no abstraction capability. Slideshow, an extension of PLT Scheme, represents our effort over the last several years to build an abstraction-friendly slide system. We show how functional programming is well suited to the task of slide creation, we report on the programming abstractions that we have developed for slides, and we describe our solutions to practical problems in rendering slides. We also describe a prototype ...

⁸⁶ Discourse and dialogue: MATCH: an architecture for multimodal dialogue systems Michael Johnston, Srinivas Bangalore, Gunaranjan Vasireddy, Amanda Stent, Patrick Ehlen, Marilyn Walker, Steve Whittaker, Preetam Maloor



July 2001 Proceedings of the 40th Annual Meeting on Association for Computational Linguistics ACL '02

Publisher: Association for Computational Linguistics

Full text available: pdf(523.08 KB) Additional Information: full citation, abstract, references

Mobile interfaces need to allow the user and system to adapt their choice of communication modes according to user preferences, the task at hand, and the physical and social environment. We describe a multimodal application architecture which combines finite-state multimodal language processing, a speech-act based multimodal

dialogue manager, dynamic multimodal output generation, and user-tailored text planning to enable rapid prototyping of multimodal interfaces with flexible input and adaptive ...

87 Can GRID services provide answers to the challenges of national health information sharing?



I. Bilykh, Y. Bychkov, D. Dahlem, J. H. Jahnke, G. McCallum, C. Obry, A. Onabajo, C. Kuziemsky

October 2003 Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(964.34 KB) Additional Information: full citation, abstract, references, index terms

It has been widely recognized that one of the keys to cost reduction and service improvement in national health care lies in the integration of medical information system. Integration of information can not only improve care delivery today, but it can also help build research bases to enhance future care delivery. The question is how to achieve such integration? Imposing a single client software solution or common clinical terminology does not appear likely to happen. That lack of single softwar ...

An open meteorological alerting system: issues and solutions

Ian Mathieson, Sandy Dance, Lin Padgham, Malcolm Gorman, Michael Winikoff

January 2004 Proceedings of the 27th Australasian conference on Computer science -



Full text available: pdf(247.56 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes an experimental alerting system under development by the Australian Bureau of Meteorology, initially targetted at (but not restricted to) the aviation sector. The system provides alert routing and filtering: for example pressure readings from automated weather stations may conflict with a local terminal aerodrome forecast, resulting in an alert being displayed to forecasters and other interested parties (such as airlines or individual aircraft). The multi-agent based design i ...

Keywords: artificial intelligence, distributed systems, real-time systems, software engineering

89 Customizing Graphics for Tiny Displays of Mobile Devices

Thomas Rist, Patrick Brandmeier

January 2002 Personal and Ubiquitous Computing, Volume 6 Issue 4

Publisher: Springer-Verlag

Full text available: pdf(309.97 KB) Additional Information: full citation, abstract, citings, index terms

Advances in mobile devices and wireless telecommunication infrastructure already provide mobile users with access to online information sources and services. Compared to the PC world, however, mobile access is still quite restricted, especially with regard to the display of graphical representations, such as images, drawings, diagrams, maps and logos. Since graphical representations are increasingly used in the World Wide Web for the purpose of information presentation, the adaptation of graphic ...

Keywords: Adaptive graphics, Image transformation, Mobile services, Mobile web access

90

Algorithms and theory: A methodology for semantic integration of metadata in bioinformatics data sources





Lei Li, Roop G. Singh, Guangzhi Zheng, Art Vandenberg, Vijay Vaishnavi, Sham Navathe March 2005 Proceedings of the 43rd annual southeast regional conference - Volume 1 ACM-SE 43

Publisher: ACM Press

Full text available: Ppdf(346.06 KB) Additional Information: full citation, abstract, references, index terms

Semantic heterogeneity is becoming increasingly prominent in bioinformatics domains that deal with constantly expanding, dynamic, often very large, datasets from various distributed sources. Metadata is the key component for effective information integration. Traditional approaches for reconciling semantic heterogeneity use standards or mediationbased methods. These approaches have had limited success in addressing the general semantic heterogeneity problem and by themselves are not likely to s ...

Keywords: bioinformatics, clustering, information integration, metadata, semantic heterogeneity

91 XSLT powers a new wave of web applications

Cameron Laird

March 2002 Linux Journal, Volume 2002 Issue 95

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(17.61 KB) Additional Information: full citation, abstract, index terms

Cameron explains the mysteries of XSLT and its multiple uses.

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IEE CNF	IEE Conference Proceeding	Robotics and Automation, 2002. Proceedings, ICRA '02, IEEE International Co Volume 1, 11-15 May 2002 Page(s):175 - 180
IEEE STD	IEEE Standard	Digital Object Identifier 10.1109/ROBOT.2002.1013357 <u>AbstractPlus</u> Full Text: <u>PDF</u> (699 KB) IEEE CNF <u>Rights and Permissions</u>
		Meeting customer needs using participatory techniques Wood, C.; Computer Human Interaction Conference, 1998. Proceedings. 1998 Australasi 30 Nov4 Dec. 1998 Page(s):336 Digital Object Identifier 10.1109/OZCHI.1998.732236 AbstractPlus Full Text: PDF(8 KB) IEEE CNF Rights and Permissions
		3. Implementing a VXIplug&play soft front panel Nelson, P.; Chae Shin; McTee, M.; AUTOTESTCON '95. 'Systems Readiness: Test Technology for the 21st Centumaterial Record 8-10 Aug. 1995 Page(s):277 - 286 Digital Object Identifier 10.1109/AUTEST.1995.522684 AbstractPlus Full Text: PDF(460 KB) IEEE CNF Rights and Permissions
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processing computers
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Digital Object Identifier 10.1109/APEC.1994.316317 AbstractPlus | Full Text: PDF(416 KB) IEEE CNF Rights and Permissions 6. Ambient Noise Imaging-first deployments of ROMANIS and preliminary d П Venugopalan, P.; Chitre, M.A.; Tan, E.T.; Potter, J.; Beng, K.T.; Ruiz, S.B.; Tar OCEANS 2003. Proceedings Volume 2, 22-26 Sept. 2003 Page(s):882 - 888 Vol.2 Digital Object Identifier 10.1109/OCEANS.2003.1283400 AbstractPlus | Full Text: PDF(621 KB) IEEE CNF Rights and Permissions 7. QMotor 3.0-an object oriented system for PC control program implementa П Costescu, N.P.; Loffler, M.S.; Feemster, M.G.; Dawson, D.M.; American Control Conference, 2001, Proceedings of the 2001 Volume 6, 25-27 June 2001 Page(s):4526 - 4531 vol.6 Digital Object Identifier 10.1109/ACC.2001.945692 AbstractPlus | Full Text: PDF(648 KB) IEEE CNF Rights and Permissions 8. Automatic generation and validation of memory test models for high perf microprocessors Zarrineh, K.; Ziaja, T.A.; Majumdar, A.; Computer Design, 2001. ICCD 2001. Proceedings. 2001 International Confere 23-26 Sept. 2001 Page(s):526 - 529 Digital Object Identifier 10.1109/ICCD.2001.955084 AbstractPlus | Full Text: PDF(320 KB) IEEE CNF Rights and Permissions 9. GeoBrowse: an integrated environment for satellite image retrieval and m Marchisio, G.B.; Wen-Hao Li; Sannella, M.; Goldschneider, J.R.; Geoscience and Remote Sensing Symposium Proceedings, 1998, IGARSS '98 <u>International</u> Volume 2, 6-10 July 1998 Page(s):669 - 673 vol.2 Digital Object Identifier 10.1109/IGARSS.1998.699546 AbstractPlus | Full Text: PDF(1496 KB) IEEE CNF Rights and Permissions 10. Human factors methods in the design of the graphical user interface for t systems radar product generation (ORPG) component of the WSR-88D Priegnitz, D.; Frashier, D.; Marci, T.; O'Bannon, T.; Smith, S.; Steadham, R.; B Rausch, M.; Aerospace and Electronics Conference, 1997. NAECON 1997., Proceedings of <u>National</u> Volume 1, 14-17 July 1997 Page(s):328 - 331 vol.1 Digital Object Identifier 10.1109/NAECON.1997.618099 AbstractPlus | Full Text: PDF(504 KB) | IEEE CNF Rights and Permissions 11. A framework for prototyping and mechanically verifying a class of user in Bumbulis, P.; Alencar, P.S.C.; Cowan, D.D.; Lucena, C.J.P.; Computer-Aided Software Engineering, 1995. Proceedings., Seventh Internation 10-14 July 1995 Page(s):280 - 288 Digital Object Identifier 10.1109/CASE.1995.465305 AbstractPlus | Full Text: PDF(528 KB) | IEEE CNF Rights and Permissions

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12. Signal processing and feature extraction toolbox for prognosis/diagnosis

Shubha Kadambe; Autotestcon, 2005. IEEE 26-29 Sept. 2005 Page(s):431 - 437 Digital Object Identifier 10.1109/AUTEST.2005.1609174 AbstractPlus | Full Text: PDF(151 KB) IEEE CNF Rights and Permissions 13. The development of an artificial neural network embedded automated ins management system Chih-Hsien Kung; Devaney, M.J.; Chung-Ming Huang; Chih-Ming Kung; Yi-Jer Instrumentation and Measurement Technology Conference, 2001. IMTC 2001. the 18th IEEE Volume 2, 21-23 May 2001 Page(s):865 - 868 vol.2 Digital Object Identifier 10.1109/IMTC.2001.928200 AbstractPlus | Full Text: PDF(680 KB) IEEE CNF Rights and Permissions

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+ First we created a console front end to test the functionality, ... + If there is a text passage, the passage is linked to a HTML/XML file with an ... https://init.linpro.no/pipermail/skolelinux.no/commits/2006-May.txt - 977k -Cached - Similar pages

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この記事によりますと、OSXのCrashの一因はXML preferences fileの破損による場合 ... と 同時にScriptableであるためGUI Objectの各種Propertyの判定が可能であるので ... members.at.infoseek.co.jp/MACFreak/soft.html - 655k - Cached - Similar pages

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Abstract superclass for implementing AllTests files for testing directories. ... This agent is another instance of TextOutput - it sends a gui object to ... www.ai.mit.edu/projects/hal/release/docs/api/index-all.html - Similar pages

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code generator that translates an XML file containing the LfP program and generates C++. files that will be linked to the execution environment. ...

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[egroupware] Log of /trunk

added support for SIF encoded files(Sync4j) added search support(needed for ... security checks, need some testing before real connexion with GUI object ... www.egroupware.org/viewvc/trunk/?sortby=author&view=log - Similar pages

From sascha.renner at chello.at Wed Feb 1 00:29:53 2006 From ...

If there is no xml file (or the xml is too different than the patch settings) ... Can you share it? it is not yet a "110 gui object" it is only a scribble ... www.cycling74.com/pipermail/maxmsp/2006-February.txt - Similar pages

From julian at techkwondo.com Sat Jul 1 00:44:09 2006 From: julian ... If a whole qui object for this is to much to ask, i think at least there should be ... the only problem is that when reading the .xml-file into subsub2psto ... www.cycling74.com/pipermail/maxmsp/2006-July.txt - Similar pages

2.0 link0 GNUstepWiki - Recent changes [en] link1 Track the most ...

It uses XML files, and its goal is to be fast and easy to use. ... elements and inspectors to get every common GUI object included in the standard palettes. ... mediawiki.gnustep.org/index.php?

title=Special:Recentchanges&limit=500&hideliu=1&feed=rss - Similar pages

[pyicqt-commits] r208 - in trunk: . src src/tlib src/tlib/twisted ...

Reflector): + """Reflector for twisted.enterprise that uses **XML files**. ... + This is largely helpful for **testing** or within a threaded + **environment**. ... modevia.com/pipermail/pyicqt-commits/2006-June/000135.html - <u>Similar pages</u>

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Enter an XML declaration, and a comment to identify the file, as shown below:. <?xml version='1.0' encoding='utf-8'?> <!-- DTD for a simple "slide show". ...

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control of actuation, and adds in the built-in test functionality. ... TempView This is a GUI object that displays the temperature to a user on a display. ...

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Testing. **Test** Model. s. r. **Environment**. Development Case ... The Observer pattern, via making the **GUI object** simply appear as an object ...

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Kido: how can we test it?? user interface environment ... The GUI object downloading mechanism enables "look and feel" customization ...

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lostlog

The **GUI object** SDIF-menu is only available for OS9 at the moment. Some of the externals described ... C'mon, it can't be that difficult to read a **XML file**. ... www.bek.no/Members/lossius/lostblog?cat_id=4 - 453k - <u>Cached</u> - <u>Similar pages</u>

停止- [Translate this page]

The plugin.xml file shows up in a multi-page editor, together with ... Look for a test for the given functionality (it's probable that the test is already ... eclipsecn.blogbus.com/s3263/index.html - 422k - Cached - Similar pages

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